The Logger's Bark
RADIO CLUB of TACOMA

AUGUST 2023 VOLUME 20 ISSUE 08 ©Radio Club of Tacoma W7DK

FROM THE EDITOR!

Hello again folks…

WOW! What a bummer of a month! Fires in Hawaii burned up the tourist town of Lahaina on Maui. It was totally destroyed and that is such a shame for so many reasons, not the least of which was the loss of life and homes for the people there. Really heartbreaking to see that. Having been to Lahaina once before, and I actually went thru downtown and sat under the old banyan tree…

Then there was the typhoon that just missed hitting southern California after bumping up along the Baha California coast of Mexico. Fortunately, not much damage to either Mexico or USA towns that time.

But wait! There's more! Florida was just hit by a hurricane, class 3 that went right over the peninsula and is currently working it's way up the east coast. Just the first of many? Who knows… Stay tuned.

Fortunately, no bad weather here in Washington or the PNW in general… So far!

See that pix up there in the right top? Yeah, it's that time of year again. We plan on going again this year, mostly because we can get in for free (almost) on Friday morning… Weather is supposed to be good. We'll see. As the pix shows, last year the weather was fine.

Band conditions still… Crummy. No other way to describe it, just awful. So far the new sunspot cycle hasn't been doing us any

favors!

OK, enough from me! 73 and CU at the clubhouse!

Gary WG7X

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Radio Club of Tacoma
Board of Directors Meeting
August 2, 2023

Meeting called to order at 7pm by President Mike W7XTZ

Officers and Directors Present

President	Mike Mikuchonis W7XTZ
Vice President	Adam Barbera W2NCC
Secretary	Mike Drorbaugh W7MKE
Treasurer	Steve Dightman AF7YD
Board	Bruce Hanson WE7P
Board	Paul Matney W7PFU
Board	Doug Schafer AB7DG
Board	Red Cranefield WB7EC
Board	Phil Pia K7PIA

Quorum? All Board members were present and a total of 19 members attended in person or via zoom. The attendance list is attached.

Silent Key or Illness? Eric Jenkins K7APO, his XYL fell and hurt her leg and head. She is now home from the hospital. Worth Gurley W7WG is now out of hospital and is in a rehab facility, respiratory issues we think. Nick K7MO received his machine to do home maintenance of his kidneys. This is an infusion system and is done in place of dialysis.

Approval of Minutes of July 5, 2023, Board of Directors Meeting as circulated. Without objection the minutes were approved as posted.

Secretary's Report (W7MKE) Mike W7MKE reported that they have had two Zoom meetings to review Club Policies and have made good progress to date with another meeting planned for tomorrow at 6pm to continue the process and hope to have a completed document for the Board for the September meeting.

Treasurer's Report (**AF7YD)** Steve AF7YD submitted a written financial report that is attached to these minutes. Financial reports are available to members on our website. Steve mentioned that in July there were three Saturdays that did not have a host and so the money received was not tallied and available. Steve mentioned that income year-to-date is considerably less than expenditures due to clubhouse repairs and replacement of items lost to burglary. Steve's report included a detailed list of Field Day spending which was more than usual as some of the most expensive items lost to burglars were the generator and heavy power cables. It was noted that the Field Day Pig is not being passed around anymore. Also, that we need to have an accessible porta potty rather than a regular one. He pointed out that we have received some cash donations for the garage roof repair that is coming up.

Committee / Reports

Membership (W7XH/K7GRS) Mike W7XH updated membership rolls today and reported 313 members. So far this year we have had 37 new members since the beginning of the year. Mike urged that we continue to invite potential members. He estimates that only about nine members are promotional members.

Library (AD7AV) Doug AD7AV is traveling in August and when he returns there will be a Committee Meeting.

Training (AD7AB) Mike W7XTZ reported no training classes until October.

VE (AC7WW) John AC7WW submitted the following written report: Your VE Team traveled to Port Orchard on Thursday July 13, 2023. Six Exam Elements were graded from 4 candidates. Three Technicians joined the amateur service and one candidate failed to earn an initial license.

- Thanks to Jan K7HTU and Stephan AD7AB.
- The next scheduled test session is Tuesday, August 8th, 2023.
- Steve AF7YD reports that Stephan AD7AB continues to work with the new techs who are interested in Emcomm.

Info Tech and Website (WB4SPB) Randy WB4SPB reports that all computer systems are nominal. He's received 4-5 desktop computers: three Windows 7 and one Windows 10. He refurbished them and they are available for PMT. No Fourth Wednesday program decided yet.

HF Operations(K7PIA) Phil K7PIA reports that the Flex is still out of service and the K3 is being used in its place. The 7610 is working great, however, we need a USB cable for it so that it can be used for digital.

See www.contestcalendar.com for radio sport. Upcoming is NAQP, CW this Saturday and SSB is the 19th. These are 12-hour contests. The Worldwide DX Digi contest mostly focuses on FT8 and FT4 is August 26th. The HF station is available for contesting so contact Phil if you want to get set up for a contest. Work on the VHF/UHF station is ongoing, the Winlink software is working for HF/VHF/UHF.

Al N7OMS presented information on suggested equipment for the HF room. Four monitor arms so that the heat from monitors is better dissipated. He wants RIGrunners for power distribution to make better cable dressing and make it easier to see where the power is going. Phil moved for $500 to upgrade the HF stations. Motion was seconded by Mike W7MKE. There was no discussion or questions offered. The motion passed unanimously.

Tower (K7MO) No report, waiting for Nick K7MO to get healthy.

Repeater Ops (N7OMS) Al N7OMS reported we are about ready to take the W7TED repeater out to Bates. This is John KI7YRC's repeater, but we've agreed to help him. Our old Bates repeater has been given to PMT for disposal. Al wondered if we should have a text tree to remind people about upcoming networks, etc. Doug AB7DG asked if we could use our repeater for Pierce County ARES. It would make a better case for grants if we could say the emergency communications organizations use our repeaters. No one present knew what repeaters are now being used by Central Pierce County ARES.

Facilities Management (W2NCC) Adam W2NCC reported that there are a lot of open projects that are being pushed out to September.

Property Management (WB7EC) See Attached disposal list. Rec WB7EC reports in July we took in $XXX. He reported on items on the property disposal list. Red moved to dispose of the items on the list. Motion was Seconded by Adam W2NCC and Motion Passed without objection.

Museum (KD7SV) Dan KD7SV reported that he worked on the Kenwood TS 520 last Saturday and

hopes to get it done next week. Also, he hopes to begin working on the Drake L4-Bs next week. Dan showed a certificate we received from the Maritime Radio Historical Society for working on the Enigma transmissions and decoding the transmission. Dan reports that he will use some of the museum's budget to give a donation to the Maritime Historical Society to maintain their old equipment.

General Meeting (W7UUU) The August Monthly Meeting will be a program by Adam W2NCC on the Icom 7610.

Old Business
Steve AF7YD reported he's made no progress on the new inventory format. He hopes to have it by September.

New Business
Kirkreit Picnic may cost about $200 this year and Paul W7PFU will submit reimbursements for the food. This is a potluck so bring your items.

Salmon Run: Adam W2NCC reported that Salmon Run comes up on the 16th and 17th of September. He asked if we wanted to appoint someone to head up promotion and Deanna Jenks KA7DCX volunteered to do that.

Mike W7XH reports that there will be something on Salmon run coming out in the BARK and Pledge forms are available on our website also forms will be available at the clubhouse. He will do a mailing in September and last year we had 74 contributors that donated about $9K.

Activity Reports, Discussion Topics, Announcements
Doug AB7DG wondered who managed Open House Hosts. It seems that now we don't have a Host manager. Doug Schafer AB7DG volunteered to be the Host Manager to organize the weekly hosts. Bruce WE7P asked to be able to step down as he cannot do stairs anymore. Adam has the alarm codes now and keys to the lock box to make it available to hosts.
Bunny Hunt at picnic update: Mike W7MKE reported that he would make available equipment and will hide two transmitters for a simple bunny hunt.

Adjournment at: The meeting was adjourned at 8:21pm

Submitted by

Michael Drorbaugh W7MKE
Secretary

Radio Club of Tacoma
Monthly General Meeting
August 9th, 2023

Officers and Directors Present

President Mike Mikuchonis W7XTZ

Vice President Adam Barbera W2NCC

Secretary Mike Drorbaugh W7MKE

Treasurer Steve Dightman AF7YD

Board Doug Schafer AB7DG

Board Paul Matney K7PFU

Board Red Cranefield WB7EC

Meeting Called to Order at: 7:02pm by President Mike W7XTZ

Flag Salute was led by President Mike W7XTZ

Quorum? A total of members attended in person or via Zoom. The attendance list is attached.

Welcome and Acknowledgement of New Members and Visitors (Please introduce yourselves)

Health and Welfare/Silent Key & Illness: No report.

PROGRAM: Adam W2NCC shared a presentation about the ICOM 7610

- New Icom-7610 received by the Club in June 2023, Also received RS BA1 Software which makes controls available on the monitor via mouse. Transceiver also has traditional front panel controls and menu access.
- Connects directly to computer Via USB and you can connect remotely (using RS BA1 software)
- Mouse control of the touch screen without the RS BA1 is limited to waterfall area.
- Radio has two independent receivers. With independent controls for each. So two bands can be monitored at same time or two different modes on same band can be monitored. Or two antennas on same band and mode.

Secretary's Report: There will be another Zoom Meeting Thursday 8/10 6pm to 7pm to work on RCT Policies (Standing Rules). Zoom meeting 94789972112 PW: 359513. Progress has been pretty good and I anticipate only needing another 2-3 meetings to complete the draft for the BOD.

Treasurer's Report Steve AF7YD reports all bills are paid up. As of the end of July 2023 we have spent more than income by about $XXXX Big expenses are clubhouse repairs and replacement of stolen gear along with the typical big-ticket items like taxes and insurance.

Committee / Activity Reports

Membership (W7XH/K7GRS) Mike W7XH reports 313 members with two new members still to process. Be inviting and friendly to potential new members. Membership renewals go out in October along with ballots for new officers and board members. Mike is getting out a mailing to all club members for Salmon Run.

IT Report (WB4SPB) Randy WB4SPB reports all systems nominal. If you need anything setup for contests, etc. let Randy know right away.

Museum (KD7SV) Dan KD7SV reported that he has been working on Mike Isakson's TS-520 and hopes to complete it soon. He wants to get that off the bench to begin work on the club's Drake LB-4s but he will be out of town for the next two weeks.

Dan thanked Randy WB4SPB for his presentation on the enigma machine decode broadcast from the maritime historical society. We received an excellent certificate to frame and put up for decoding the coded message. There is an article in the Logger's BARK this month. (July Ed.)

Property Management (WB7EC) Red WB7EC reported that in July PMT received $XXX from sale of donations. They are busy sorting equipment but are short of transceivers and power supplies above 20A.

Facilities Management (W2NCC) Adam W2NCC reports that the projects planned will not happen until September include garage roof, modify, and upgrade the storage shed, additional security cameras and alarms.

4th Wed. Night Activity (WB4SPB) Randy WB4SPB said the next activity will probably be another technical workshop and show and tell.

Bark Editor (WG7X) The new July BARK is available.

Unfinished Business

Nothing offered.

New Business

Nothing offered.

Announcements/show and tell/ traffic & Tuning

Steve AF7YD reported on the picnic Bunny Hunt.

Adjournment at 8:14

Michael Drorbaugh W7MKE
Secretary, W7DK

MIKE W7XH HAS A REMINDER FOR US ABOUT THE UPCOMING BIG EVENT OF THE YEAR, SALMON RUN! DETAILS BELOW.

CQ CQ CQ

CQ SALMON RUN CQ SALMON RUN

SALMON RUN

WHISKEY SEVEN DELTA KILOWATT

Annual Fundraiser

Club member donations helped to pay for much needed maintenance and repairs to our club house. Of course we still have several projects that we would like to complete.

Last year we had 74 members participate in Salmon Run. Donations were very generous. Thank you for your support!

I want to challenge our club to even greater participation. Of course I would love to see all 309 members involved in our fundraising efforts. That might be unrealistic, but could we get 150 to 200 members participating? I think so.

Will you help get the word out? Pledge forms can be downloaded from the website. I will have Randy place the link on the home page. I will have printed forms available at the clubhouse in the kitchen.

1600Z Saturday, September 16, 2023 is the start: be there, or be...

Thanks, Mike W7XH

QRZ

by Dave W7UUU

News you can use!

This month's topic: Part 1—How does the QRZ Swapmeet work?

Hello everyone and welcome back to the QRZ News You can Use column! As a staffer of the largest ham radio site in the world and Director of the QRZ Forums, every month I hope to bring you behind-the-scenes info on the workings of this great web site that most hams use in one way or another.

One of the most frequent questions we get on QRZ is "how do I sell stuff on QRZ?" There are a number of great places on the internet to sell ham gear (QTH, eHam, and others) but the QRZ Swapmeet has a very loyal following and (based on member numbers) the largest viewership of any of them. So it's a natural that hams want to list gear on the site.

The QRZ Swapmeet is actually a group of forums, each with a different purpose and focus. Some require users to be a paid member, some are open to anyone posting. We have this important distinction in place not for profit, but rather to keep scammers out. We'll cover that aspect in next month's column. For now, let's continue with brief descriptions of each forum in the Swapmeet. Please view the graphic to see the full tree of forums under the Swapmeet heading.

The first and most popular forum of course is "Ham Radio Gear For Sale". This forum requires a subscription to post. Pretty self-evident that this is where folks sell ham gear. But it's only for ham-related gear, and generally only for used gear. (Even a radio purchased but the box never opened is still "used" because the seller now owns it… so that's still considered used gear). Pretty much anything in the ham world of gear can be listed here as long as it's ham radio gear.

The second forum is for everything else and is also subscribers only: "General Merchandise". This is where items like

computers/laptops, routers, surge suppressors, power conditioning, furniture, and frankly most anything else! We've seen household appliances and similar items many times. Radios like GMRS and CB gear must be listed in this forum because, despite being radios, they are not "ham gear".

Next on the list is "Ham Made Gear". This forum is reserved exclusively for those small home cottage businesses making things like keys, EFHW antennas, call sign plaques, and the like. No full-blown commercial products are allowed. Products must be made in small home factories by the hams themselves. This forum recently became subscription only due to some abuses we'll cover next month.

After that is our first forum where anyone can post, "Ask a Swapmeet Expert". This is a place to ask specific questions, usually regarding more complex questions about how to use the Swapmeet or how to work with buyers.

After that is "Ham to Ham References" where buyers and sellers can post commentary on how a deal went down. Most of the time the reviews are favorable but from time to time, some pretty negative reviews appear so it's often a good idea to do a search in this forum for a given seller (or buyer!) to make sure they've not had complaints. This is a forum anyone can post to.

Next up is "Scams and Theft Reports". This is a very serious forum and is reserved only for actual thefts (took the money but never shipped) or other scams by members. If it happened on Facebook or QTH or elsewhere, it will be deleted from this forum. We only allow such reports as relate to actual QRZ Swapmeet deals. The forum is open to all but those posting must have a legitimate reason for doing so or their comment may be removed.

Swapmeet Talk is next—also open to anyone. This is a general chat forum for all things Swapmeet. It really is a variation of Ask a Swapmeet Expert but is more relaxed as to content. Lots of open discussions about shipping, eBay selling questions, how to price stuff, that sort of thing. Light banter for Swapmeet discussions in general.

Lastly is "Free Stuff". This is a brand new forum, added in August 2023, to allow anyone to post up items for free to any member who wants them. The donor is free to pick and choose who gets the item, and whether shipping cost is involved. But no items can be sold outright. We've already seen some very generous offerings come up! There are a lot of kind hams out there who like to use this forum to make surplus gear available to those who might want it. And of course, no subscription is required to list in this forum.

So that's the roundup of the QRZ Swapmeet forums and what they all are for. Next month we'll have part two of this column, where I'll discuss how the serious scams happen. Scammers are rampant on the internet these days, and QRZ is no exception. I will explain the anatomy of the most common techniques used, and how you can avoid falling victim—whether you're using QRZ or any other online Swapmeet forum.

So that's it for this month. Yeah, I know I said this column would be about the QRZ Callsign Database and how that is all managed but in chatting with a few club members, it seemed there was quite a lot of interest in knowing more about the inner workings of one of the largest ham swapmeets online, at QRZ.com

Until then, 73! Dave W7UUU

MAILBAG!

Astute readers of the Loggers Bark might have noticed that there had been mentions of Al N7OMS doing a bit of renovations in the HF room to accommodate the two new monitors that we have acquired to use with the also new Icom 7610. Here, we see photographic proof of the hard work that Al did to install these new items. Also included is another picture of the Elecraft station now sitting where the Flex radio was. Never fear, Flex fans! The Flex will return...eventually. In the meantime, take a peek at the new, improved W7BUN Memorial HF station!

The pictures shown above are of improvements that are taking place at the Radio Club. Shelves that surrounded the two HF stations upstairs have been removed and monitor arms put in their place. This will allow members to adjust the monitors improving station ergonomics. Better heat management and improved access to back of the radios is also accomplished.

You will also see the power supply for the new ICOM 7610 resting a on shelf in the antenna patch panel bay. Now you have easy access to the power switch for that station.

The next step will be to feed both the North station and South station with DC power distribution boards. These power boards will feed the radio and other needed accessories at the stations. Unfortunately the rig runner DC boards are on backorder till December 2023 last time I looked. The team will be looking for alternate options for DC power distribution.

We will install another shelf on the antenna patch panel bay to hold the power supply for the Drake L4B. Getting it out in the open for better heat management.

Small changes to improve the HF room stations. Hope you will come by and see for yourself. Your HF team Phil K7PIA, Bob AD7LJ, Gary WG7X and myself Al N7OMS.

Left, Mike W7MKE installing the new microphone on the Icom. Lower right, a “before” picture that we can compare to the two “after” pictures on the previous page.

Previous page; top left, we can see Al, N7OMS hard at work. Folks, it was not easy installing the new equipment and it was on one of the few hot days we’ve had this summer!

Next up, some of you might remember the recent (Last month) article on W7OS and the Enigma machine? Here are a couple pictures of Dave, K7FI who not only worked / copied the Enigma message, he then used the W7OS radio station to make a CW QSO after not having made an on-air contact in decades!

Lets hear it for Dave! (And the W7OS crew that gave their able assistance to him. Randy WB4SPB and Dan KD7SV)

Here's Dave! Gotta love that Grin in the first pix, directly above! Then Right, Dave is still smiling, and at bottom left, the actual QSO in progress!

ATTA Boy, Dave… and W7OS crew!

A couple more pictures from RHS Crypto Transmission. Here we see Randy WB4SPB and dan KD7SV copying the “Enigma” coded messages talked about in last month’s newsletter...

Next up, a request from Steve AD7VL. Steve is a member of the PNNA (Pacific Northwest Numismatic Association) IOW a coin collectors club, not unlike the Radio Club of Tacoma. But, the PNNA has something the we've lost: a booth at the Western

Washington State fair (DOO DA Puyallup!) Steve has talked to his coin club and they have an opening for folks who would like to help with providing folks to run the booth. Apparently no actual knowledge of coins is required, just be there to keep an eye on the booth… If you're interested, Steve said that Stephan AD7AB will act as our liaison to the coin club. Contact Stephan at his email address: semorton at harbornet dot com. Address deliberately obscured to possibly fool email address farmers...

A bit about Worth, W7WG SK, long time member of The Radio Club of Tacoma.

Lastly, we recently lost another long, long time member of the RCT. Worth Gurley, W7WG recently passed a few short days from his 105th birthday. I have been asked to do a more in depth obituary for Worth possibly in the near future, if I can ask you, the members of this club, to give me anecdotes / stories about Worth for inclusion in the Loggers Bark that would be great!

In the meantime… That's me, Gary WG7X with Worth at the W7DK August picnic in 2011 at the bottom of the page.

From Worth's bio on QRZ.com:

Born 1918 in Los Angeles, Calif. First call: W1IWK in Hampden, Mass. April 2, 1935 A few other calls held: W6ORE, W1NHV, KA7GH (Itazuke Air Base on Kyushu), KA8GH (Misawa AB), KA6GH (Okinawa)...all in the late 60's and early 70's, DA2GH Fuerth near Nuernberg (Nuremberg) Germany and many others.. Taught in the DOD Dependents Schools in Japan twice and in Germany twice at several military bases: Camp Drake, Misawa, Baumholder, Kaiserslautern, Munich, Itazuke AB, Misawa AB, Nurnberg (Fuerth) for 23 years. Also taught at Bainbridge Island High School in WA, Ouray CO. First "job" CCC Sequoia National Park CA in 1939; first real job: NDO section of the FCC in Boston 1940-41 (later called RID section) listening for subversive stations. WWII...1941-1945 General Electric Co Electronics Div, Bridgeport Conn Receiver Engineering Dept. (Radar), then Radar Field Service in NYCity in Brooklyn Navy Yard. Univ. of Colorado, Boulder 46-50 and New Mexico Highlands Univ (NSF academic year institute) and earlier at LACC Retired in 1981. Belong to Retired Teachers and Mountaineers and Radio Club of Tacoma (working with W6LIX and W6NBD in RCT Radio Museum putting antique radios on air.. trying to get the chirps out.. under call of W7OS, memorial call of Dr. Clifford Spike, a founder of the club in 1916)

The Mighty DK's!

Monthly QSO Report

Each month in the *Bark* the Radio Club of Tacoma recognizes the members and guests who have made non-contest QSOs using the HF stations at our clubhouse. Saturday Open House, especially, is a time when members have access to this equipment. Why not sit down at one of our operating desks and make a contact or two? Assistance is almost always available for those unfamiliar with the equipment, and if your license class doesn't permit HF operation, ask the denizens of the HF Room or the Saturday clubhouse host to help you find a suitably-licensed control operator to sit with you.

It's a feather in the club's hat for the call sign of **The Mighty DK** to be heard on the airwaves. So get on the air and get your name in the *Bark*! (Don't forget to enter your call sign as the operator into our logging program.)

Clubhouse QSOs July 31 through Aug 30, 2023:

- Randy WB4SPB: 1
- Mike W7MKE: 13

Do you need help with some area in ham radio?

Here is a place……. First is the listing of areas of support,

followed by a list of members' areas of interest.

Elmer Board

Do you need help with some area in ham radio?
Here is a place……. First is the listing of areas of support, followed by a list of members' areas of interest.

	Name/Call Sign /Phone Number/ Topic
1.Technical questions, Classes	Adam W2NCC 360-870-7894 (4,5,6,7,11)
2. Help with Code	Al N7OMS 253-495-9068 (10,12)
3. License Examinations	Dave N7HT 253-363-1692 (1,2,4,6,8)
4. Antenna and Station planning	Dave W7UUU 253-820-0890 (2,4,6,9) and more
5. Antenna and Tower erection	Gary WG7X 253-327-0503 (1,4,5,6,8,9,10,11,12)
6. Buying new or used equipment	Mike W7XTZ 253-405-8095 (6,8,10)
7. Equipment repair	Phil K7PIA 253-307-4781 (9,10,12)
8. Understanding and operating your equipment	Randy WB4SPB 253-761-9391 (2)
9. DX and Contests	Stephen AD7AB 253-212-9437 (1,3,4,12)
10. Club and ARRL activities	Steve AF7YD 253-988-0878 (4,5,10,12)
11. Using test equipment	
12. IRLP , Digital, SDR, ARPS, Winlink,Vara, Satellite	

The Club LINEUP

Club Officers

President: Mike Mikuchonis –W7XTZ w7xtz©w7dk.org

Vice Pres: Adam Barbera, W2NCC - w2ncc©w7dk.org

Secretary: Mike Drorbaugh W7MKE - w7mke@w7dk.org

Treasurer: Steve Dightman, AF7YD - af7yd©w7dk.org

5 Board Members

Bruce Hanson, WE7P - we7p©w7dk.org

Paul Matney, W7PFU - w7pfu©w7dk.org

Doug Schafer AB7DG©w7dk.org

Red Cranefield, WB7EC - wb7ec©w7dk.org

Phil Pia, K7PIA - k7pia©w7dk.org

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Permission is granted to use any or all portions of articles published in The Logger's Bark if a credit line is included in the article. Please seek permission from the original writer also.

Membership Info: FULL (licensed) and ASSOCIATE (non licensed) membership is $35 per calendar year or $30 for Licensed Seniors (65 and over). Licensed family members at same address pay $20 each for the first two and are free for the third, fourth, and so on. Full-time students, licensed or non licensed, up to age 25 are $20 per year. Note: fees are applicable for the calendar year: Jan to Dec. Lifetime membership is 20 times the yearly fee you are eligible for. Lifetime memberships are calculated based on the FULL and ASSOCIATE rates.

www.w7dk.org [LINK] - For the latest and most current information on events and activities, visit the Radio Club of Tacoma Website.

Radio Club Repeaters

Central Tacoma: 147.280 + PL=103.5

Crawford Mountain 147.380 + PL=103.5 (E of Olympia © 1500 ft ASL)

Central Tacoma: 440.625 + PL=103.5

North Tacoma: 145.21 – PL=141.3